

DERWENT-ACC-NO: 1991-290390

DERWENT-WEEK: 200319

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TITLE: Binder removing and sintering method for metal
injected compact - by heating injected compact under
pressure, to decompose binder and eliminate gas by vacuum
exhaust Dwg 0/1

PATENT-ASSIGNEE: SUMITOMO HEAVY IND LTD [SUMH]

PRIORITY-DATA: 1989JP-0328438 (December 20, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP <u>03191002</u> A	August 21, 1991	N/A
000 N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 03191002A	N/A	1989JP-0328438
December 20, 1989		

INT-CL (IPC): B22F003/10

ABSTRACTED-PUB-NO: JP 03191002A

BASIC-ABSTRACT:

Starting material comprises a metal or ceramic powder and a binder for imparting flowability. The binder comprises a thermoplastic high polymer having a Vicat softening point of 120 deg.C or higher.

Pref. as the binder are high density polyethylene (Vicat softening point: 116 - 127deg.C, polypropylene (120 - 155deg.C), and polymethylpentene (142 - 173deg.C).

USE/ADVANTAGE - Provides a moulding having improved retention of the
moulded
shape. Metal or ceramic mouldings having no deformation can be obtd.
by powder
metallurgy without applying sizing.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: BIND REMOVE SINTER METHOD METAL INJECTION COMPACT HEAT
INJECTION

COMPACT PRESSURE DECOMPOSE BIND ELIMINATE GAS VACUUM
EXHAUST

DERWENT-CLASS: M22 P53

CPI-CODES: M22-H03B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-125524

Non-CPI Secondary Accession Numbers: N1991-222351